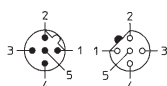
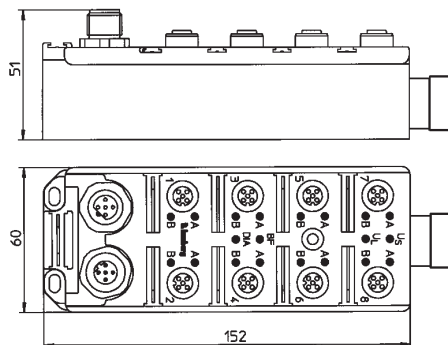
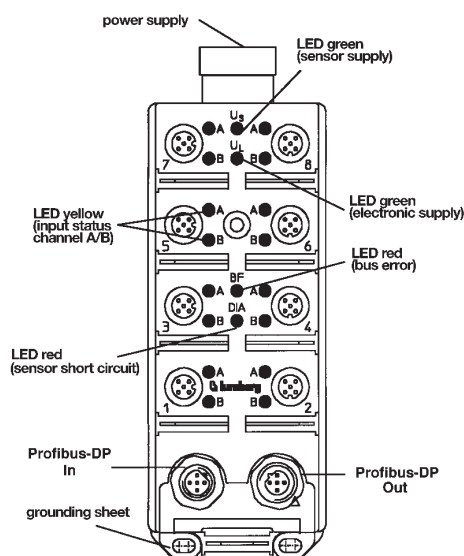




0970 PSL 109 (16E)



Pin	Function
1	+5V*
2	Line A
3	GND*
4	Line B
5	earth

* = internal signals



Power supply
1 earth
2 n.c.
3 n.c.
4 + 24 VDC (Bus+sensor system)
5 0 V (Bus+sensor system)
6 n.c.



Input
1 +24 VDC signal B
2 0V signal A
3 earth
4
5

Profibus-DP device with 16 digital inputs for standard sensors with bus connection M12.

Part-no. 0970 PSL 109

General data

Enclosure rating	IP 67
Operating temperature	0°C to +60°C
Weight	500 g

Technical data for the bus system

Transmission rate	max. 12 Mbaud
Adressbereich	1..126 dez
default	126
ID	044E hex
GSD data file	Lum044E.gsd

Technical data of the power supply of the electronics

Nominal voltage	24 V DC
Voltage range	19 V - 28,8 V DC
Current consumption	max. 60 mA
Reverse polarity protection	yes
Operating indicator (U _i)	LED green

Technical data of the power supply of the sensors

Nominal voltage U _s	24 V DC
Voltage range	19 V - 28,8 V DC
Total current of all sensors	800 mA max
Short circuit protection	yes
Sensor power supply indicator U _s	LED green

Technical data of the input levels

Nominal input voltage	24 V DC
Input switch	sinking (npn)
Number of digital channels	16
Channel status indicator	LED yellow

Bit-assignment

Port A		Port B		Port E	
Bit	Sensor	Bit	Sensor	Bit	Diagnostic
0	1A	0	1B	4	Sensor-Overload
1	2A	1	2B		
2	3A	2	3B		
3	4A	3	4B		
4	5A	4	5B		
5	6A	5	6B		
6	7A	6	7B		
7	8A	7	8B		

For the position of the diagnostic bits (Port E) see bit assignment (Presentation of the System)

Diagnostic indication

LED	Indicator	Condition
1..8 A/B	yellow	channel active
U _s	green	sensor supply active
U _i	green	module electronic supply active
BF	red	bus error
DIA	red	module diagnostics (for example sensor short circuit)